



# SZABO SCANDIC

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## Produktinformation



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# PRODUCT INFORMATION



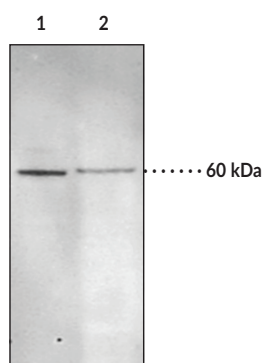
## Soluble Epoxide Hydrolase Polyclonal Antibody

Item No. 10010146

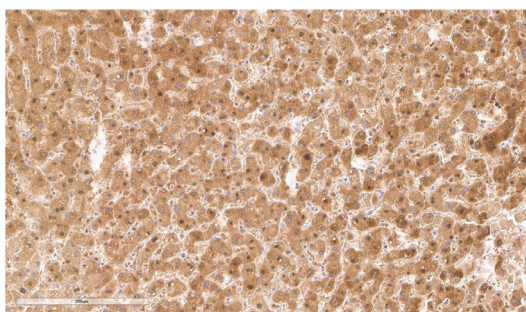
### Overview and Properties

<b>Contents:</b>	This vial contains 500 $\mu$ l of peptide affinity-purified polyclonal antibody.
<b>Synonyms:</b>	Cytosolic Epoxide Hydrolase (CEH), EPHX2, Epoxide Hydrolase 2, sEH
<b>Immunogen:</b>	Synthetic peptide from the internal region of human sEM
<b>Species Reactivity:</b>	(+) Human, mouse, and rat; other species not tested
<b>Uniprot No.:</b>	P34913
<b>Form:</b>	Liquid
<b>Storage:</b>	-20°C (as supplied)
<b>Stability:</b>	$\geq$ 3 years
<b>Storage Buffer:</b>	PBS, pH 7.2, with 50% glycerol and 0.02% sodium azide
<b>Host:</b>	Rabbit
<b>Application:</b>	Western blot (WB); the recommended starting dilution is 1:200. Other applications were not tested, therefore optimal working concentration/dilution should be determined empirically.

### Images



Lane 1: Human liver 10,000 x g supernatant (30  $\mu$ g)  
Lane 2: Mouse liver 10,000 x g supernatant (60  $\mu$ g)



Immunohistochemistry analysis of formalin-fixed, paraffin-embedded (FFPE) human liver tissue after heat induced antigen retrieval in pH 6.0 citrate buffer. After incubation with Soluble Epoxide Hydrolase Polyclonal Antibody (Item No. 10010146) at a 1:40 dilution, slides were incubated with biotinylated secondary antibody, followed by alkaline phosphatase-streptavidin and chromogen (DAB).

#### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

#### WARRANTY AND LIMITATION OF REMEDY

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# PRODUCT INFORMATION



## Description

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Soluble epoxide hydrolase (sEH) is a member of the  $\alpha/\beta$ -hydrolase fold enzyme family that catalyzes the hydrolysis of bioactive fatty acid epoxides to inactive vicinal diols.<sup>1</sup> It is a homodimer in which each subunit is composed of two domains, a C-terminal epoxide hydrolase domain and an N-terminal phosphatase domain.<sup>2,3</sup> sEH is localized to the cytoplasm or to peroxisomes in a tissue-specific manner and is found in various tissues, including skin, lung, uterus, kidney, brain, and myocardium.<sup>4,5</sup> sEH is also expressed in the vasculature and inhibition of sEH attenuates pathogenic vascular remodeling and hypertension via preservation of cardioprotective epoxyeicosatrienoic acids (EETs) in rat models of atherosclerosis and hypertension, respectively.<sup>6</sup> Inhibition of sEH also has a protective role in various diseases, including inflammatory bowel disease, osteoarthritis, seizure, stroke, and Alzheimer's disease, as well as in various chronic pain states.<sup>1,7</sup> Cayman's Soluble Epoxide Hydrolase Polyclonal Antibody can be used for Western blot. The antibody recognizes sEH at approximately 64 kDa from human, mouse, and rat samples.

## References

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1. Harris, T.R. and Hammock, B.D. Soluble epoxide hydrolase: Gene structure, expression and deletion. *Gene* **526(2)**, 61-74 (2013).
2. Cronin, A., Mowbray, S., Dürk, H., *et al.* The N-terminal domain of mammalian soluble epoxide hydrolase is a phosphatase. *Proc. Natl. Acad. Sci. USA* **100(4)**, 1552-1557 (2002).
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